TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-05-28-03**	**Date: 30-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-05-2018	
Sample ID No	:	2018-05-28-03/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	28-05-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	507	507
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.31	6.11
4	Average percentage	%	6.2	

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Lab ID : CP-RW-2018-05-28-03 **Date: 30-05-2018**

Sample ID : 2018-05-28-03/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	52	60	12.6	87.4	70-88
4.75	105	165	34.7	65.3	53-71
2.36	82	247	52.0	48.0	42-58
1.18	25	272	57.3	42.7	34-48
0.6	35	307	64.6	35.4	26-38
0.3	51	358	75.4	24.6	18-28
0.15	48	406	85.5	14.5	12-20
0.075	38	444	93.5	6.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	53	60	12.6	87.4	70-88
4.75	103	163	34.2	65.8	53-71
2.36	80	243	51.1	48.9	42-58
1.18	28	271	56.9	43.1	34-48
0.6	39	310	65.1	34.9	26-38
0.3	53	363	76.3	23.7	18-28
0.15	44	407	85.5	14.5	12-20
0.075	41	448	94.1	5.9	4-10

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-05-02-23**	**Date: 04-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-05-2018	
Sample ID No	:	2018-05-02-23/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	02-05-2018	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	332	332	3.0	97.0	95-100
22.4	2174	2506	22.8	77.2	60-80
11.2	2066	4572	41.6	58.4	40-60
4.75	2424	6996	63.6	36.4	25-40
2.36	1762	8758	79.6	20.4	15-30
0.6	548	9306	84.6	15.4	8-22
0.075	1250	10556	96.0	4.0	0-5

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-05-14-06**	**Date: 17-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-05-2018	
Sample ID No	:	2018-05-14-06/01	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	14-05-2018	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	58	58	1.2	98.8	90-100
9.5	658	716	14.3	85.7	70-88
4.75	801	1517	30.3	69.7	53-71
2.36	825	2342	46.8	53.2	42-58
1.18	705	3047	60.9	39.1	34-48
0.6	498	3545	70.9	29.1	26-38
0.3	488	4033	80.7	19.3	18-28
0.15	298	4331	86.6	13.4	12-20
0.075	352	4683	93.7	6.3	4-10
PAN	317	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2018-05-14-06	**Date: 17-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-05-2018	
Sample ID No	:	2018-05-14-06/01	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of test	:	14-05-2018	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.3	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-05-14-06** **Date: 17-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-2018
Sample ID No	:	2018-05-14-06/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	14-05-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.52	10KN(min)
2	Marshal flow at 60°C, mm	3.72	3.58	2-4
3	Percent air Voids	4.89	4.72	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.08	14.18	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.88	72.01	65-75
6	Density, g/cc	2.26	2.24	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-05-05-07 **Date: 07-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.
Address	:	Yelahanka Sub Division, BBMP Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer's Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-2018
Sample ID No	:	2018-05-05-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	276.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-05-07** **Date: 02-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.
Address	:	Yelahanka Sub Division, BBMP Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer's Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-2018
Sample ID No	:	2018-05-05-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-05-07** **Date: 08-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.
Address	:	Yelahanka Sub Division, BBMP Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer's Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-05-2018
Sample ID No	:	2018-05-05-07 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5657	5978	39.9	60.1	30-70
4	10 mm	4457	10435	69.6	30.4	10-35
5	4.75 mm	4234	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-05-07** **Date: 07-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.
Address	:	Yelahanka Sub Division, BBMP Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-2018
Sample ID No	:	2018-05-05-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2678	2921	58.4	41.6	25-55
4	4.75 mm	1789	4710	94.2	5.8	0-10
5	Pan	290	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-05-07** **Date: 07-05-2018**

Sample ID No : 2018-05-05-07 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-05-11-03**	**Date: 13-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.	
Address	:	Yelahanka Sub Division, BBMP Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer's Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-05-2018	
Sample ID No	:	2018-05-11-03/01	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)	
Date of test	:	11-05-2018	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-05-10-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.
Address	:	Yelahanka Sub Division, BBMP Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer's Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2018
Sample ID No	:	2018-05-10-03 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/05/2018

Date: 15/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	08/05/2018	15/05/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	PCC	M20	08/05/2018	15/05/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M20	08/05/2018	15/05/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig Date

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-10-03** **Date: 05/06/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Address : Yelahanka Sub Division, BBMP Bangalore.

Project Name : Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.

Agency : Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore

Customer's Reference : EE/YNK.D/W.O/123/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-05-2018

Sample ID No : 2018-05-10-03 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	08/05/2018	05/06/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	PCC	M20	08/05/2018	05/06/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	PCC	M20	08/05/2018	05/06/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Certificate No.: TC- 5548

TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-05-02-23**	**Date: 04-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.	
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore	
Customer Reference	:	EE/YNK.D/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-05-2018	
Sample ID No	:	2018-05-02-23/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	02-05-2018	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	315.0	315.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.7	240.4
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.6
5	Aggregate impact value	(B/A)*100	23.1	23.5
6	Aggregate impact value (Mean of two tests)	Pecentage	23.3	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-05-14-06** **Date: 17-05-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.
Agency	:	Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore
Customer Reference	:	EE/YNK.D/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-2018
Sample ID No	:	2018-05-14-06/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	14-05-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.8	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.5		
Strength	Aggregate Impact Value	20.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.63	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-05-05-07 **Date: 07-05-2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Address : Yelahanka Sub Division, BBMP Bangalore.

Project Name : Providing pot hole filling at kempegowda ward no-01 of Yelahanka Division.

Agency : Sri. BB. Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore

Customer's Reference : EE/YNK.D/W.O/123/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-05-2018

Sample ID No : 2018-05-05-07 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-05-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-05-07** **Date: 07-05-2018**

Sample ID No : 2018-05-05-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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